

**COLORADO RIVER RECOVERY PROGRAM**  
**FY-2004 PROPOSED SCOPE OF WORK for:**  
*Wahweap Operation and Maintenance*

Project No.: 29c

Lead Agency: Utah Division of Wildlife Resources

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Date: April 22, 2003

Revised Date: October 3, 2003

Category:

- ☒ Ongoing project
- ☐ Ongoing-revised project
- ☐ Requested new project
- ☐ Unsolicited proposal

Expected Funding Source:

- ☒ Annual funds
- ☐ Capital funds
- ☐ Other (explain)

I. Title of Proposal: Wahweap State Fish Hatchery Operation and Maintenance

II. Relationship to RIPRAP:

General Recovery Program Support Action Plan

- IV. Manage genetic integrity and augment or restore populations
  - IV.A. Genetics management
    - IV.A.4 Secure and manage genetic stocks in refugia
      - IV.A.4.a Razorback sucker
      - IV.A.4.b Middle Green River
      - IV.A.4.b Bonytail
    - IV.C. Operate and maintain facilities
      - IV.C.3. Wahweap State Fish Hatchery

Green and Colorado River Action Plans: Mainstem

- IV.A. Augment or restore populations as needed and as guided by the Genetics Management Plan.
  - IV.A.1. Develop augmentation plan for the four endangered fishes of the Green and Colorado Rivers.
    - IV.A.1.c Implement plan.

III. Background/Rationale and Hypotheses:

The Wahweap installation has demonstrated the ability to raise bonytail and razorback sucker to a tagable size in one growing season. High temperatures and a longer growing season at Wahweap maximize growth and production of bonytail chub. This facility has demonstrated as good or better growth than all others in the basin.

IV. Study Goals, Objectives, End Product:

Goal: Contribute and assist with the recovery of the endangered fish species in the Upper Colorado River basin by rearing healthy fish for stocking in the basin.

Objectives: Operate a hatchery facility that supports a genetically sound propagation program for high priority endangered fish species for the RIP in the Upper Colorado River Basin in accordance with the Annual Propagation Facilities Operation Plan and state stocking plans by holding and rearing endangered fish..

End Products:

- 1) Propagation technology and methodology
- 2) Bonytail for research and stocking
- 3) Maintain backup razorback sucker brood populations for the Upper Colorado River Basin

V. Study area:

Wahweap Hatchery, Big Water UT.

VI. Study Methods/Approach :

Conduct all tasks associated with the operation and maintenance of propagation facilities for endangered fishes such as pond culture, marking fish, maintaining records of pedigreed family lots, etc. First priority for Wahweap in the 2004 fiscal year is to raise bonytail for stocking to meet Utah's stocking plan. The second priority is to maintain razorback sucker backup brood stock for the Upper Colorado River Basin.

VII. Task Description and Schedule:

Tasks: Propagate bonytail chub, mark, and stock. Maintain backup razorback sucker brood stock.

Schedule: 12 months

VIII. FY-2004 Work

- Budget

Labor/Personal:

Project Leader (\$405/d @ 14 d)	\$ 5,670
Project Biologist (\$315/d @ 212 d)	\$66,780
Biologist (\$315/d @ 30 d)	\$ 9,450
Wildlife Tech II (\$243/d @ 172 d)	\$41,796
Seasonal (\$180/d @ 315 d)	<u>\$56,700</u>
	\$180,396

-Operational Costs

Utilities	\$16,875
Fish food	\$ 5,000
Weed control	\$ 2,500
Maintenance	<u>\$18,750</u>
	\$43,125

-Travel/Training \$ 7,188

-Vehicle expenses \$15,813

- Total \$246,522

FY-2005

-Budget\*

Labor/Personal:

Project Leader (\$425/d @ 14 d)	\$ 5,954
Project Biologist (\$331/d @ 212 d)	\$70,450
Biologist (\$331/d @ 29 d)	\$10,915
Wildlife Tech II (\$255/d @ 172 d)	\$44,141
Seasonal (\$189/d @ 318 d)	<u>\$59,724</u>

-Labor/Personnel \$191,183

-Operational Costs \$45,713

-Travel/Training \$ 7,619

-Vehicle expenses \$16,762

-Total \$261,277

IX Budget Summary

FY-2004 \$246,489\*

FY-2005 \$261,278\*

FY-2006 \$276,955\*

\*Includes a yearly 5% increase to adjust for inflation.

X. Reviewers *[For new projects or ongoing-revised projects, list name, affiliation, phone, and address of people who have reviewed this proposal.]*

## XI. References